

**FIG. 1a**

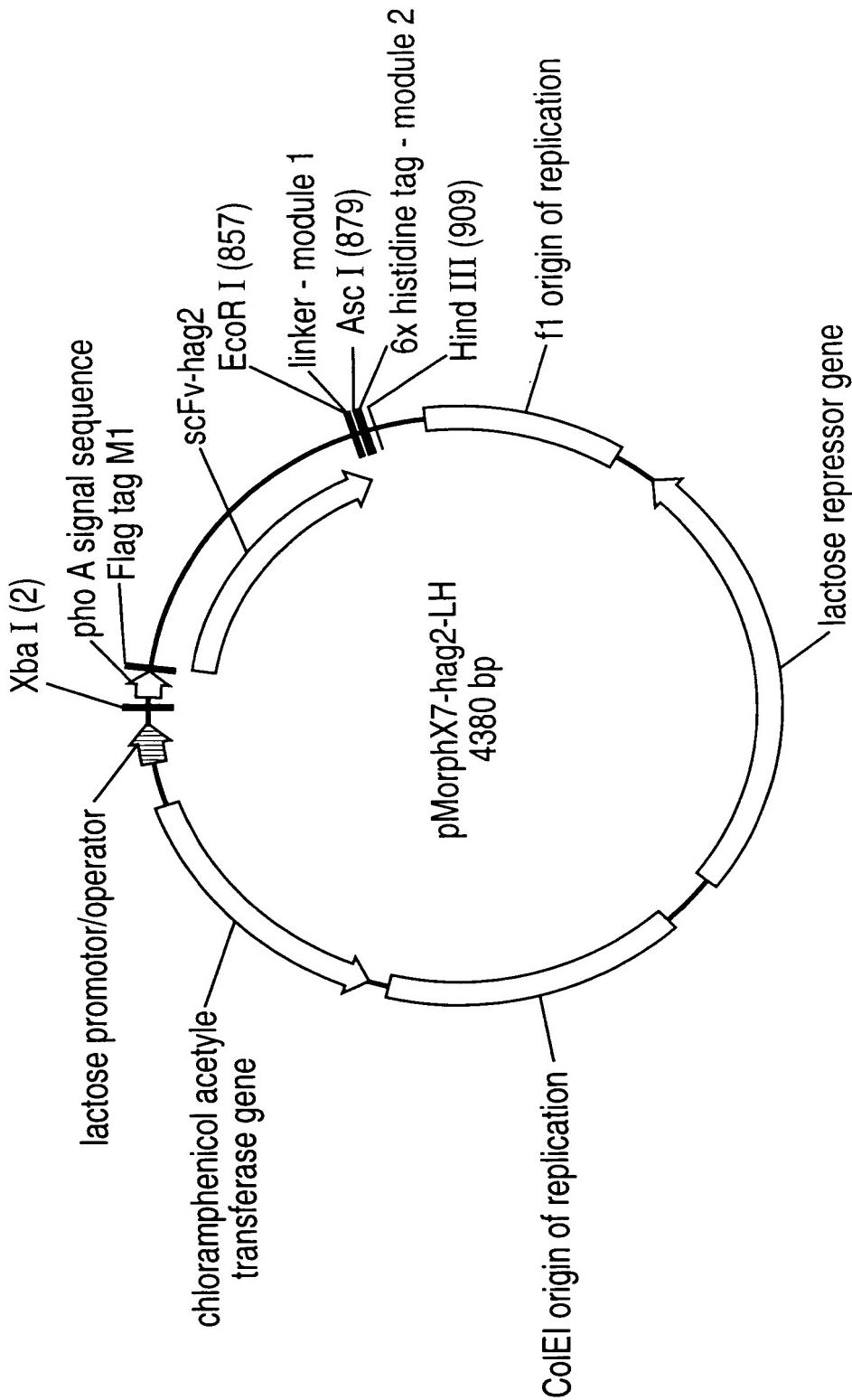


FIG. 1b

## Complete vector sequence of pMorphX7-hag2-LH

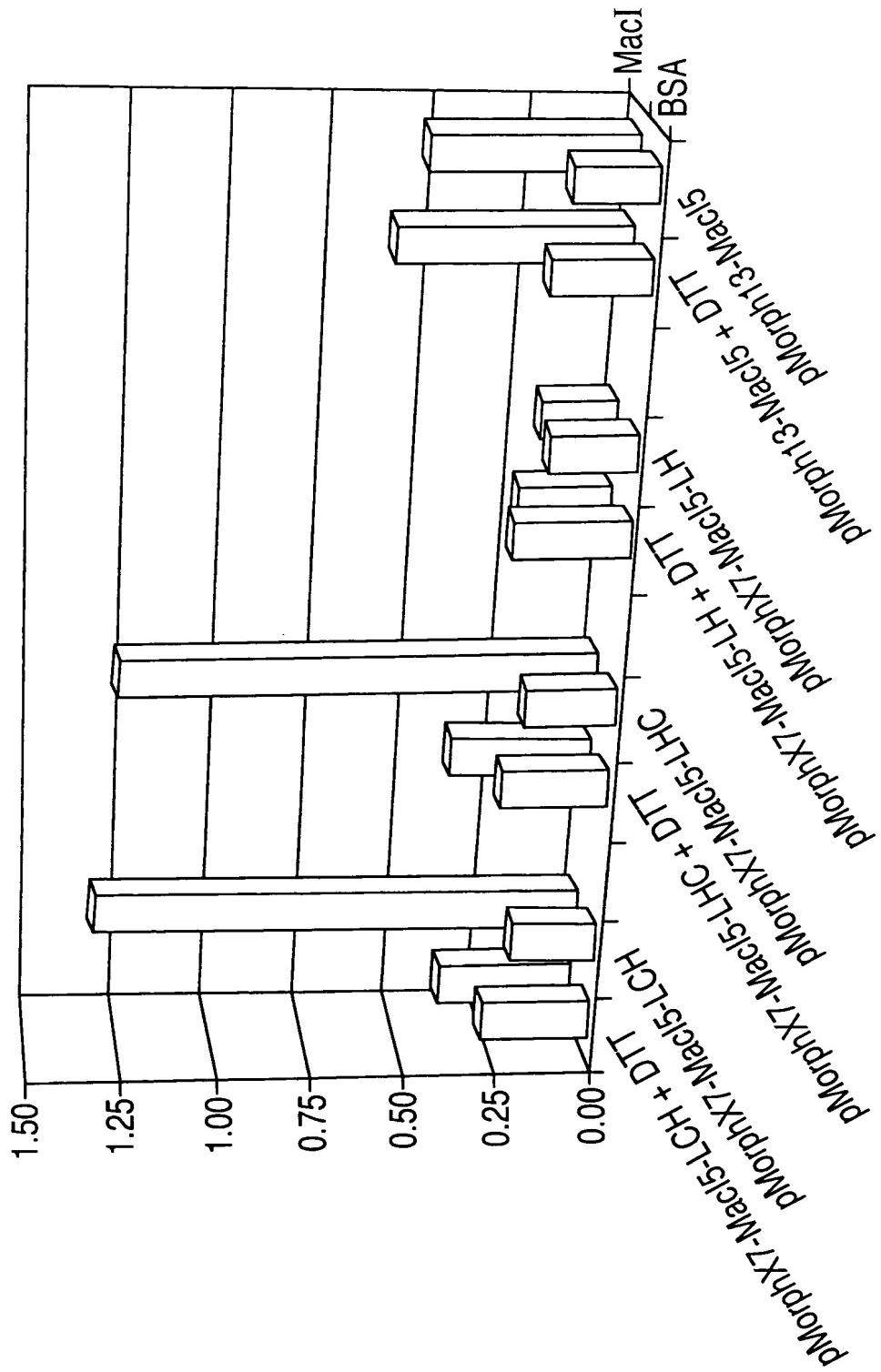
**FIG. 2**

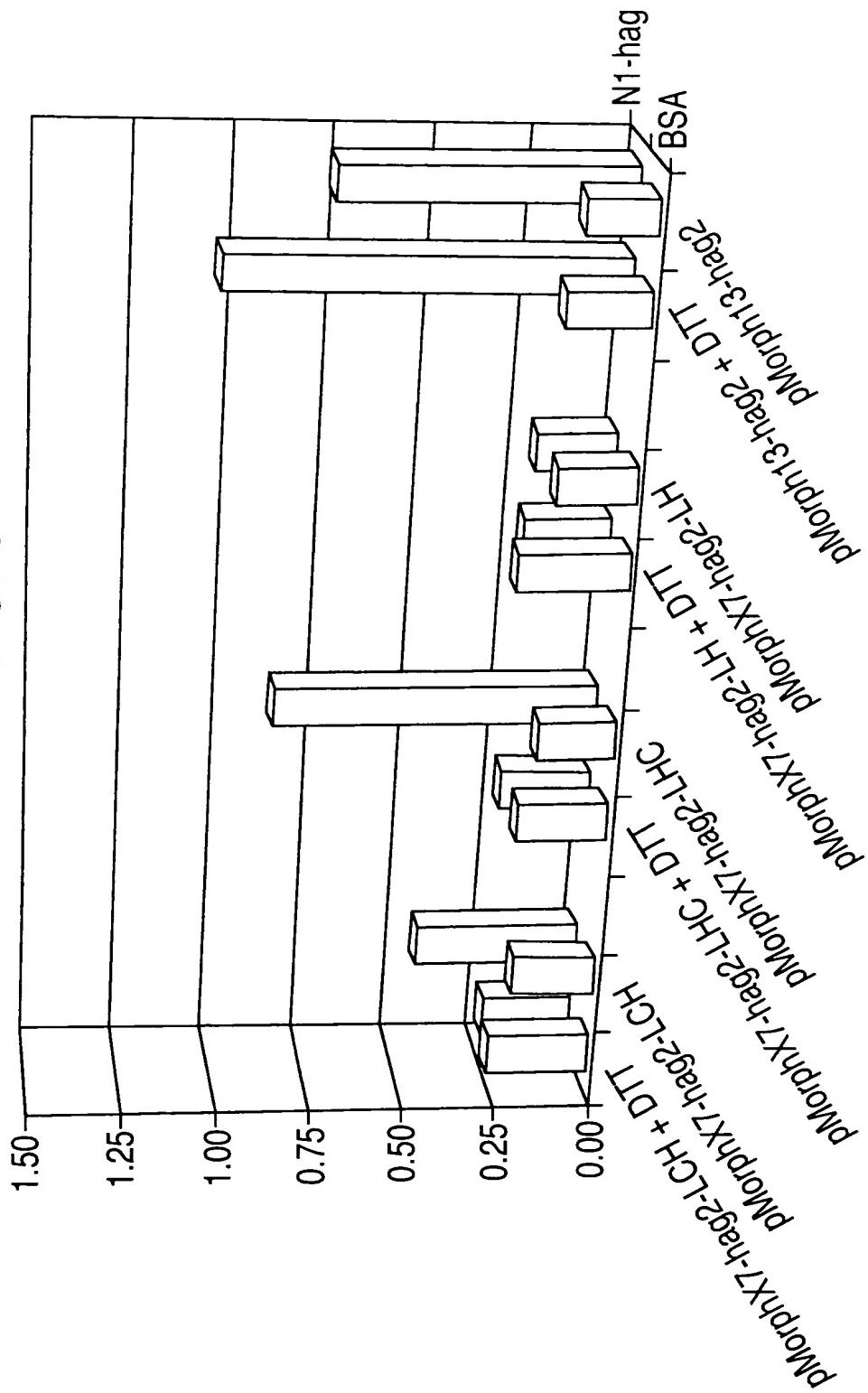
## Complete vector sequence of pTFT74-N1-hag-HIPM

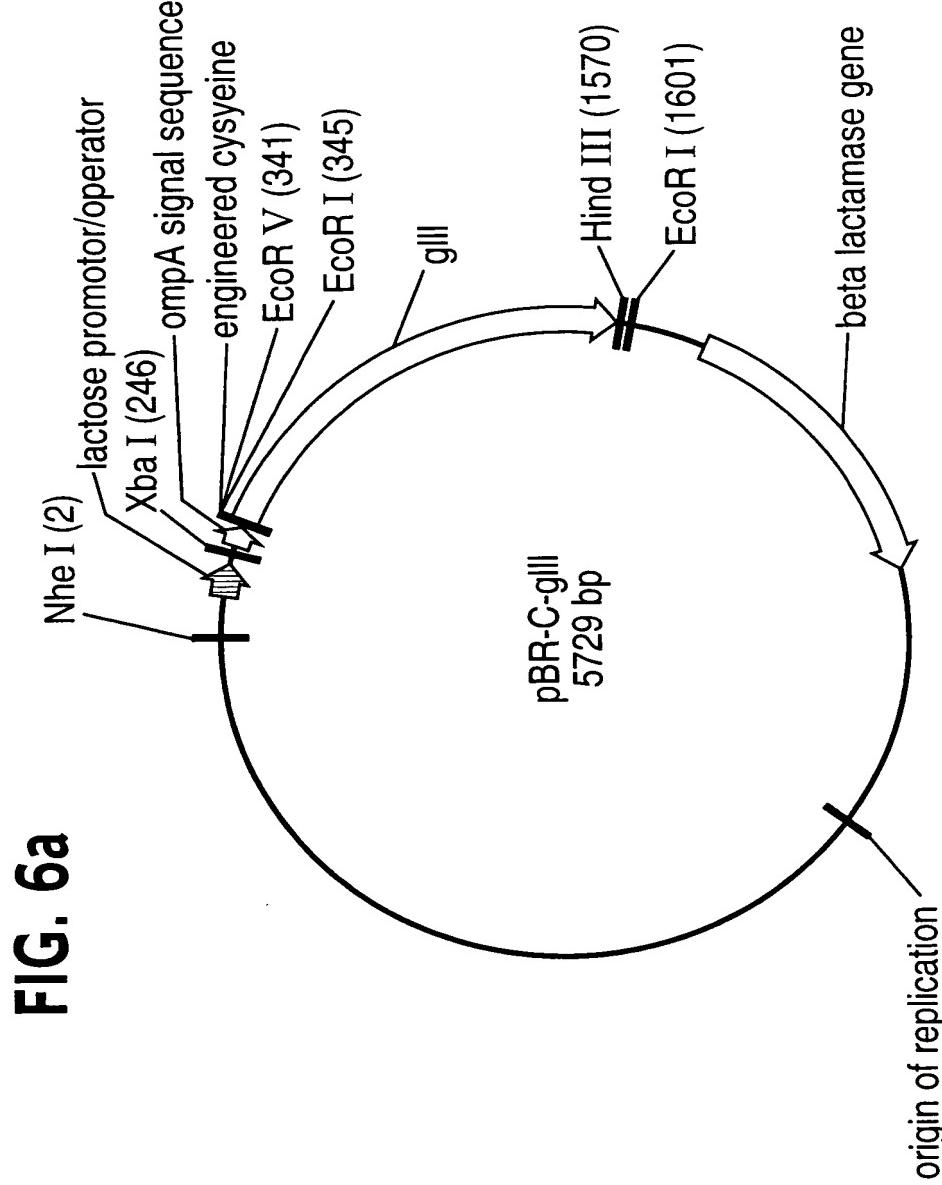
**FIG. 3**

## Complete vector sequence of pOE60-MacI

FIG. 4



**FIG. 5**



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## FIG. 6b

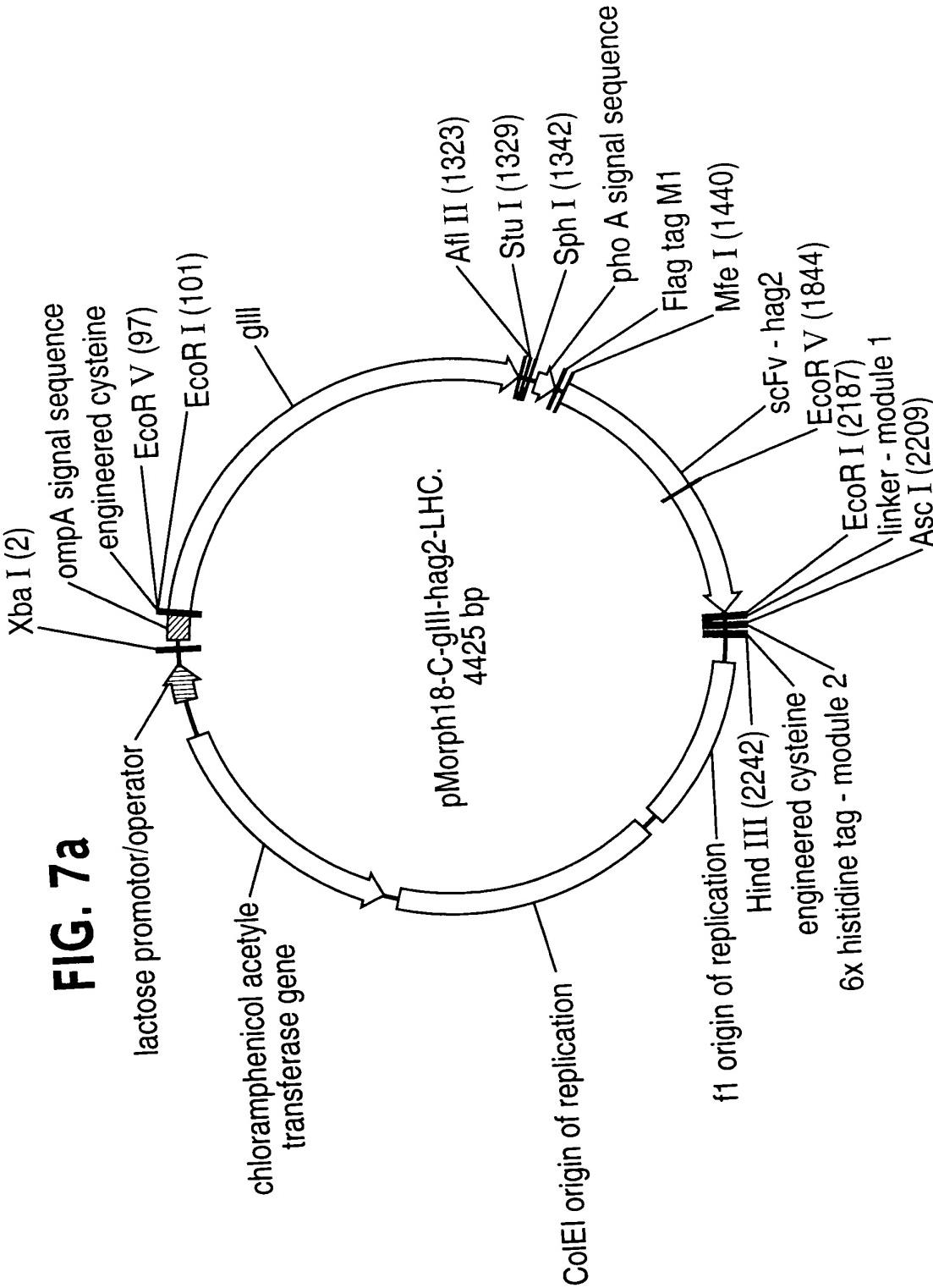
Sequence of expression cassette for full length pIII with an N-terminal cysteine residue (C-gIII)

gctagccgtaggccaggttgtcaggctcccggtggaggtataatgtcgaccgataaaagccgcctccgtacaggaggccgttttgtcagccccacctcaacgcataatgtgagtt  
gctactcattaggccacccaggcttacactttatgtcccggtcgatgttgtgtggaaatgtgagccgataacaatttcacacaggaaacagctatgaccatgatcgaatttttagataacg  
aggccaaaaatgaaaagacagctatcgccattgtcagggtggactgggttccgtaccgtacgcgcaggccgactactgcgatatcgacattcgacaaaacagtgttttagcaaa  
accctatacggaaaatcttactaacgttctggaaagacgacaaaacttttagatcgatcgtactatgtggctgtctgtggaaatgtcaggccgttgtagtttgtactgtgacgaaaactca  
gtgttacgttatcggttccatgtggctgtatccctgtggaaaatgggggtggctgtgggtgggttccgtgggtggccgtactaaacctccgtatcggt  
atcacccatltccggctatactatataccctctcgacgocactatccgttactgagcaaaacccgctaaccataccttcctgtggagtgctcagctctaactttcatgtttca  
aataataggltccgaaaataggcaggggcataactgttatacggttactcaaggcactgttccgtttaaaacttattaccgtatcactctgtatcatcaaaagccatgttatgacgctt  
actogaacggtaaattcagagactgcgttccatctggctttaatgaggatccatgttgtgtatatacgccaatgtctgtactgcctcaaccctctgtcaatgttccggccgtctgt  
gggttgttctgggtggccgtctgtgggtggccgttctgtgggtggccgttccgtgggtggccgttccgtgtttttgtatgaaaaatgg  
caaacgctaataaggggcatacgccaaaatgcgtatggggatggccgttccgtgggtggccgttctgtgggtggccgttccgtgtttttgtatgaaaaatgg  
gtttccggccctgtatggtaatggtaatggtaatggtaatggtaatccaaatggctcaatgtcggtacgggtgtatcaatgttccgtatatttccgtatatttccgtt  
cagtcgggtgtatgtcgccctatgtctttggccgttccgtggataaccataatgtatgtggatcaatgttccgtatgttccgtatatttccgtatatttccgtt  
tcgacgtttgtcaacatactgcgtataaaggagtcgttcaatgttccgttcaatgttccgttcaatgttccgttcaatgttccgttcaatgttccgttcaatgttccgtt

## FIG. 6c

Sequence of expression cassette for truncated pIII with an N-terminal cysteine residue (C-gIIIC)

gctagccgtaggccaggttgtcaggctcccggtggaggtataatgtcgaccgataaaagccgcctccgtacaggaggccgttttgtcagccccacctcaacgcataatgtgagtt  
gctactcattaggccacccaggcttacactttatgtcccggtcgatgttgtgtggaaatgtgagccgataacaatttcacacaggaaacagctatgaccatgatcgaatttttagataacg  
aggccaaaaatgaaaagacagctatcgccattgtcagggtggactgggttccgtaccgtacgcgcaggccgactactgcgatatcgacattcgccgttccggccgttccgtgttt  
ggccgtctgtgggtggctgtgggtggccgttctgtgggtggccgttccgtgggtggccgttccgtgtttgtatgaaaagatggccaaacgctt  
ataaggggcatacgccaaaatgcgtatggggatggccgttccgtgggtggccgttccgtgggtggccgttccgtgtttgtatgaaaagatggccaaacgctt  
ttgtatgttaatggtaatggtaatgtgtattttgtggctcaatgtccaaatgtcaatgtcggtacgggtgtatcaactttaatgtatgttccgtatatttccgttcaatgttccgtt  
aatgtcgccctttgttctttggccgttccgtggataaccataatgtatgtggatcaaaaataaacttattccgtgtgttccgttccgtatgttccgtatatttccgttcaatgttccgtt  
taacatactgcgtataaaggagtcgttcaatgttccgttcaatgttccgttcaatgttccgttcaatgttccgttcaatgttccgttcaatgttccgttcaatgttccgtt



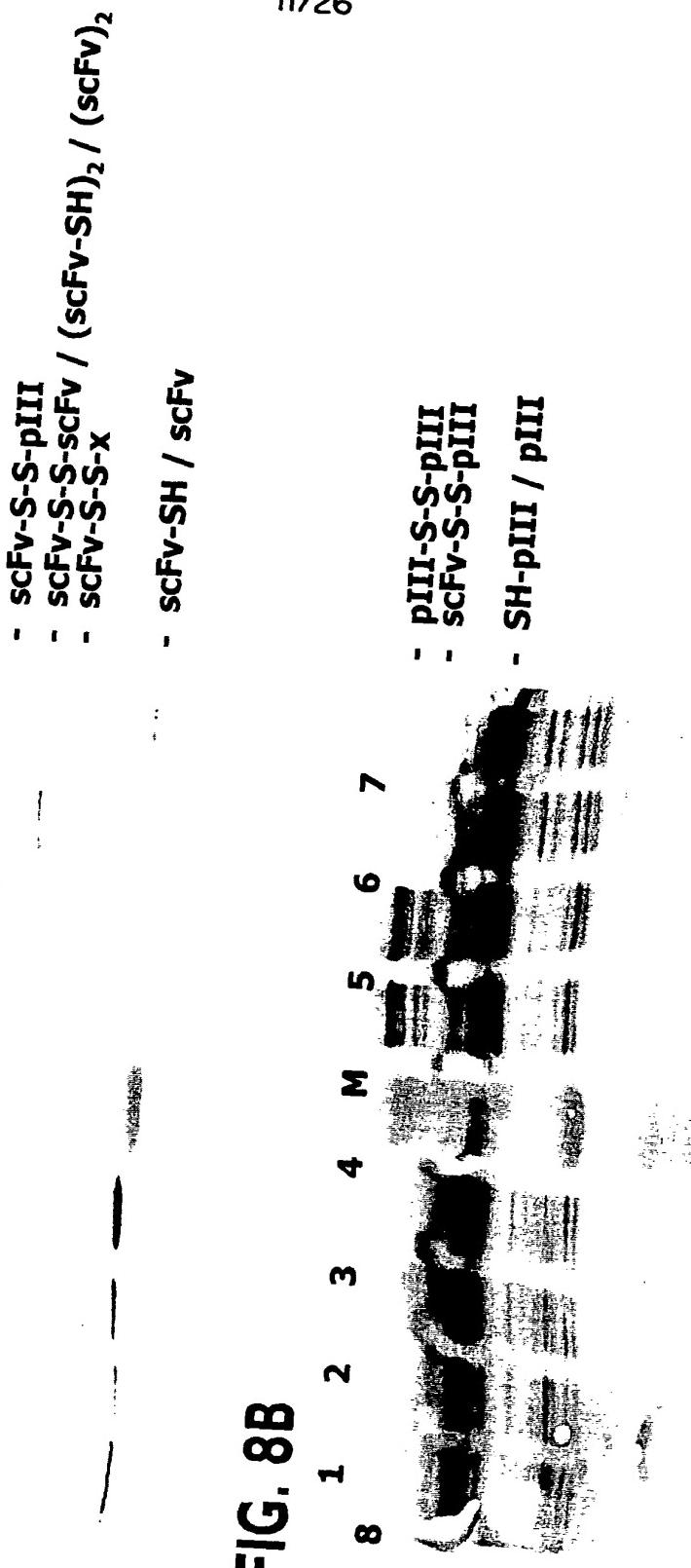
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**FIG. 7b**

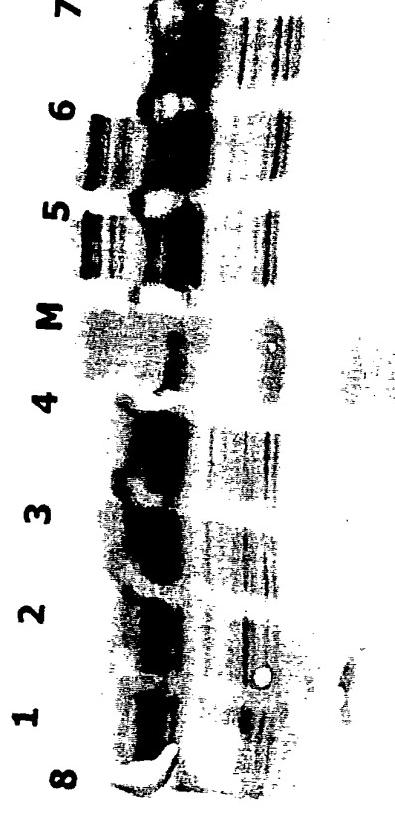
### Complete vector sequence of pMorph18-C-gIII-hag2-LHC

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**FIG. 8A<sub>2</sub>**  
8    2    3    4    M    5    6    7

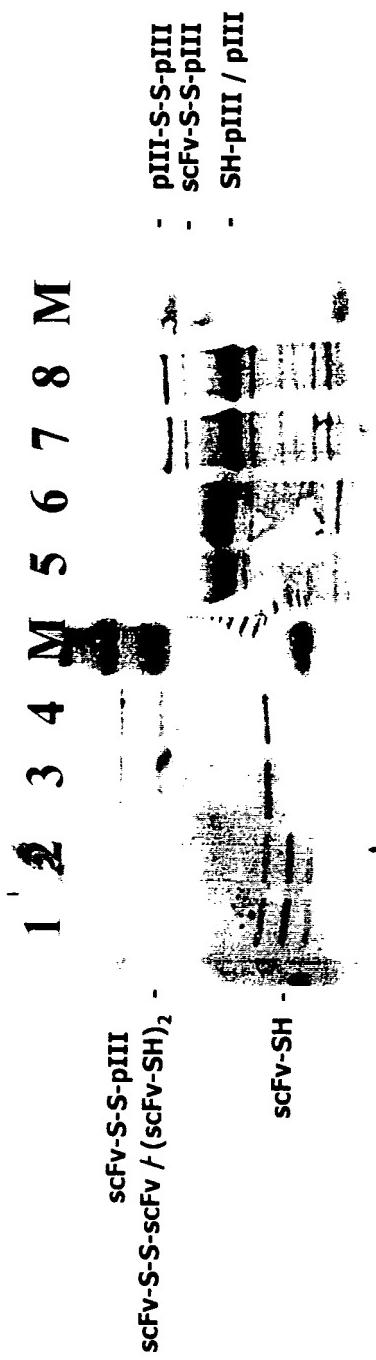


**FIG. 8B**

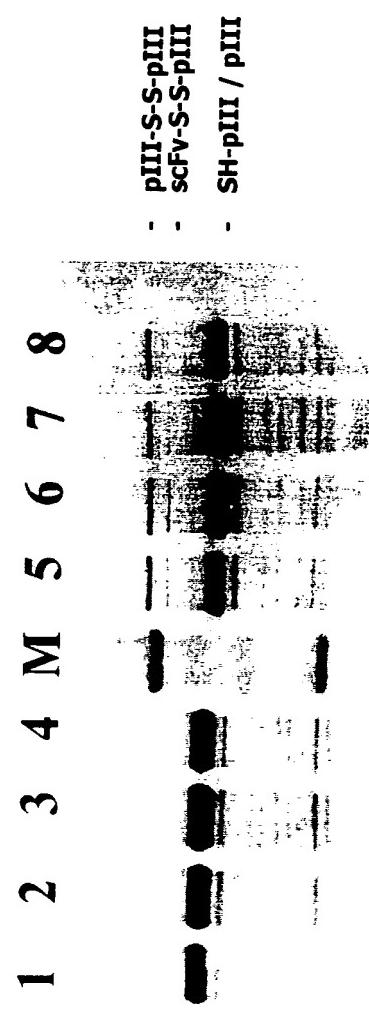


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**FIG. 9A**



**FIG. 9B**



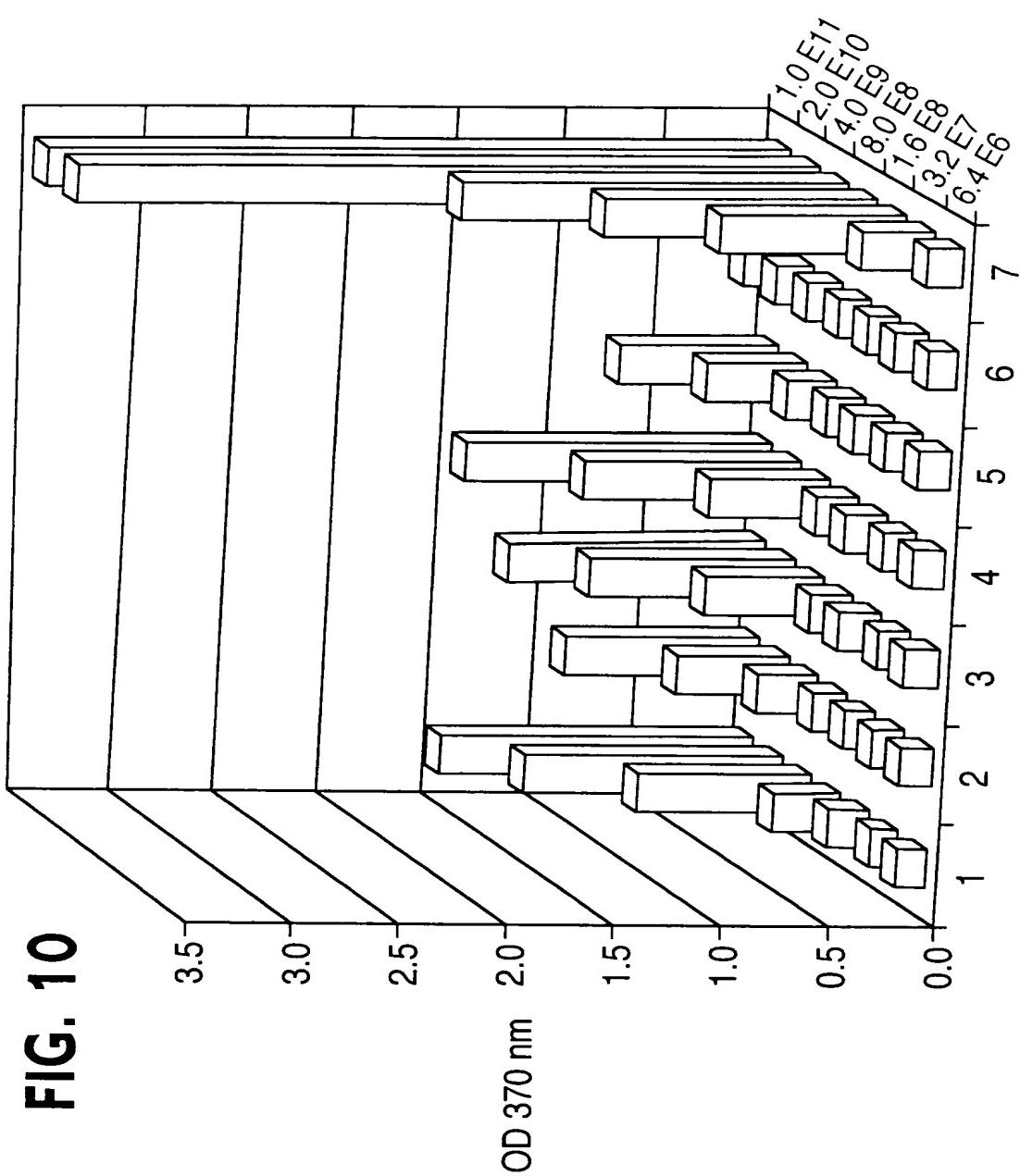
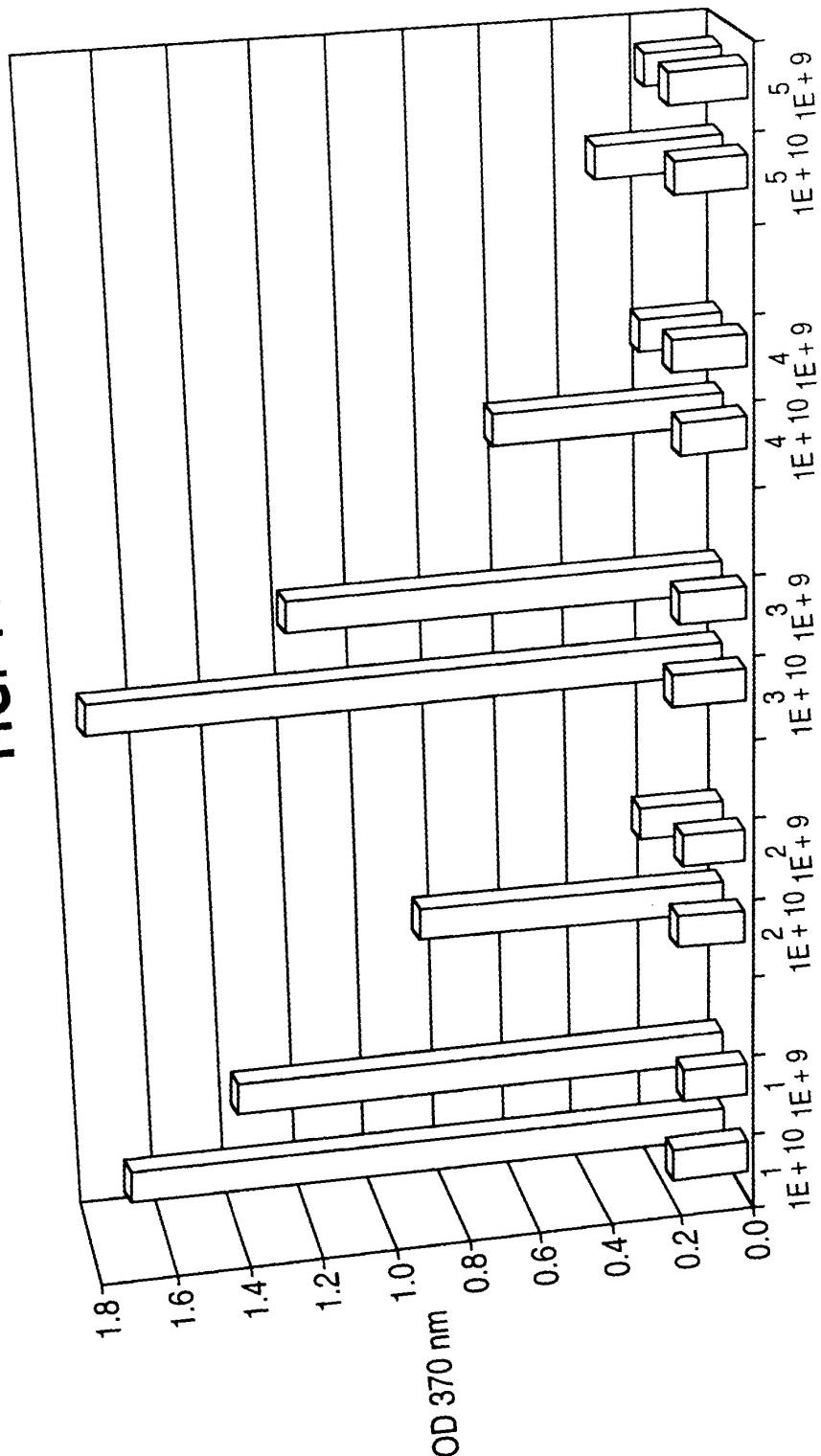
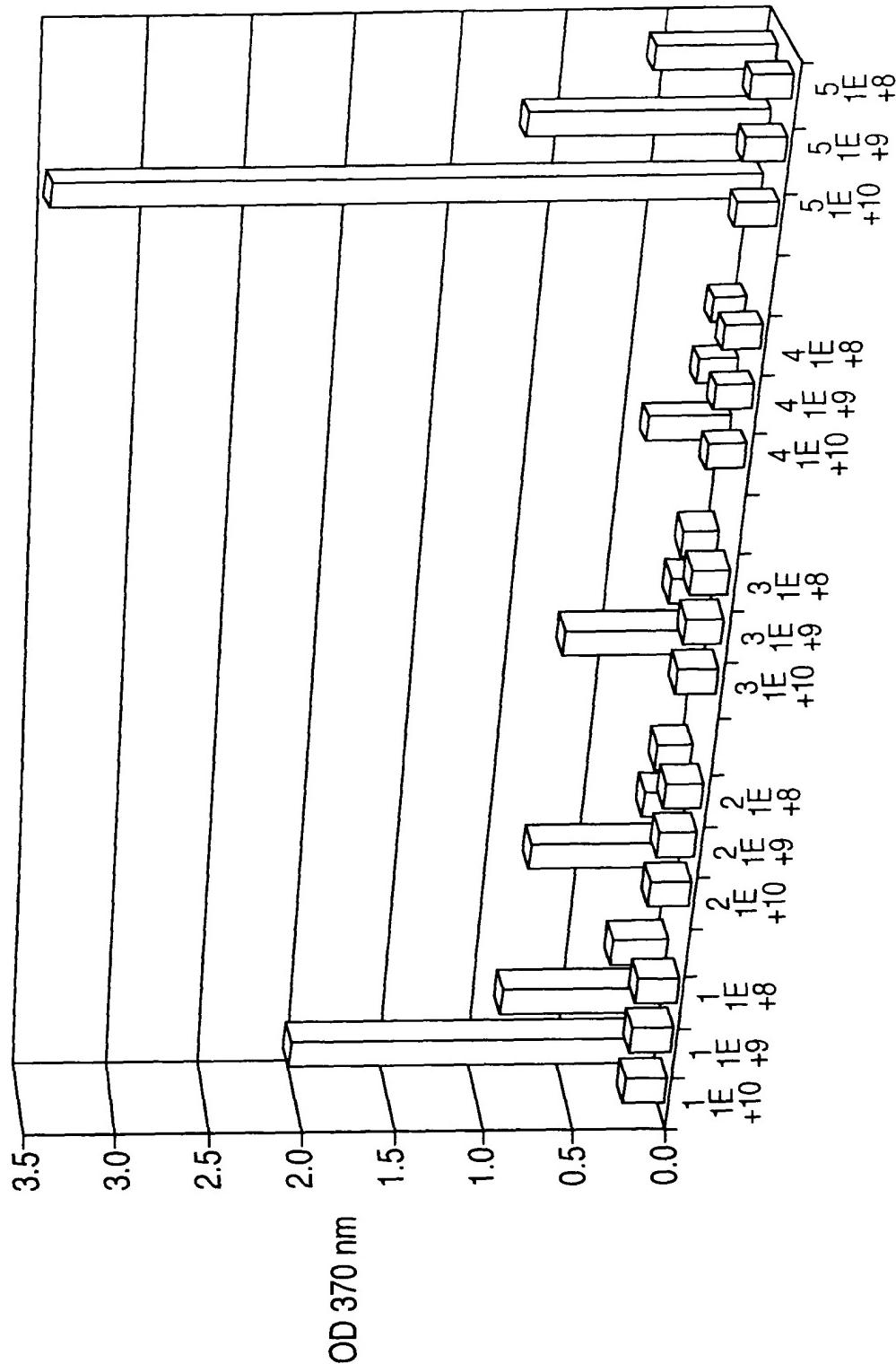


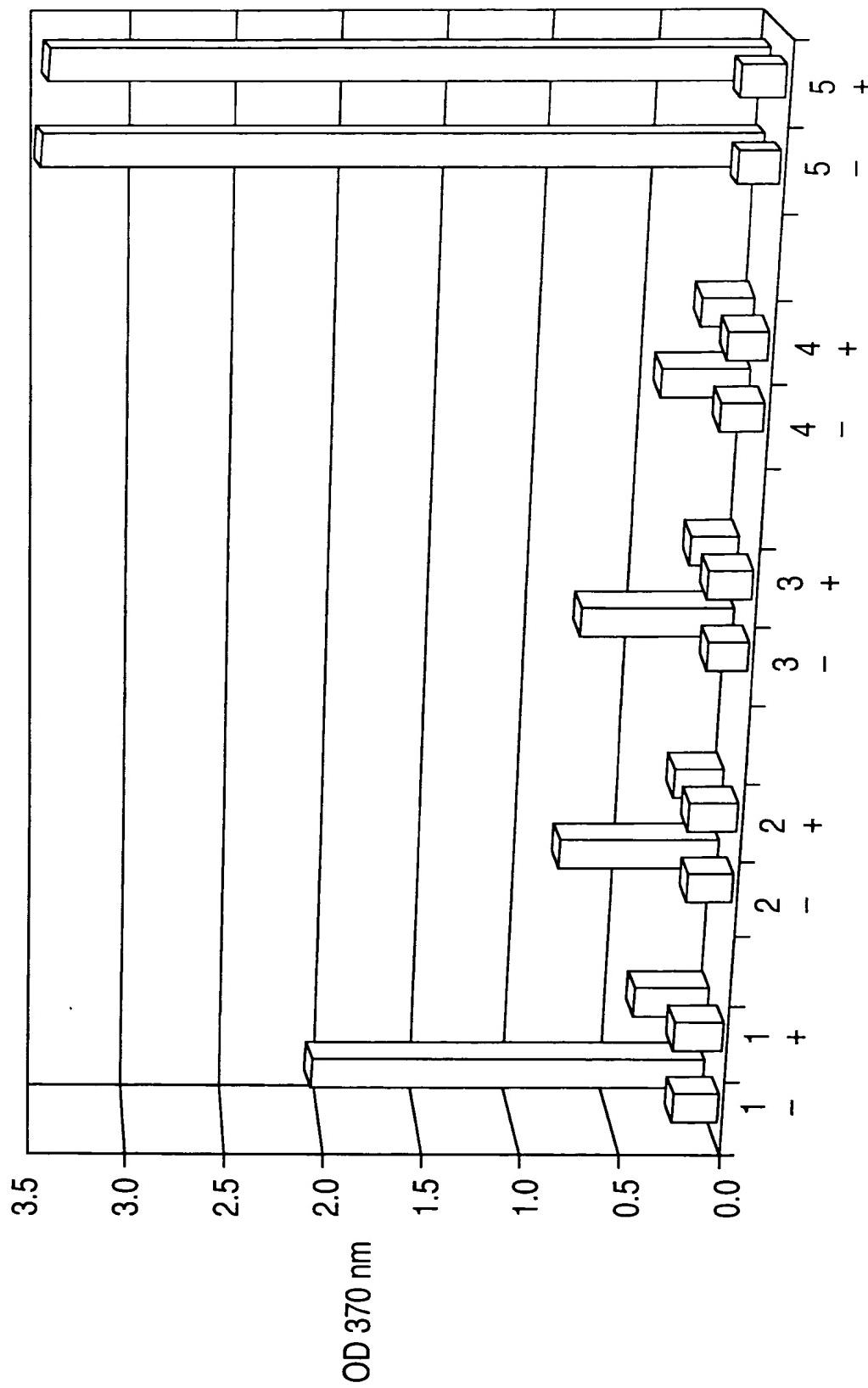
FIG. 11



**FIG. 12**



**FIG. 13**



**FIG. 14**

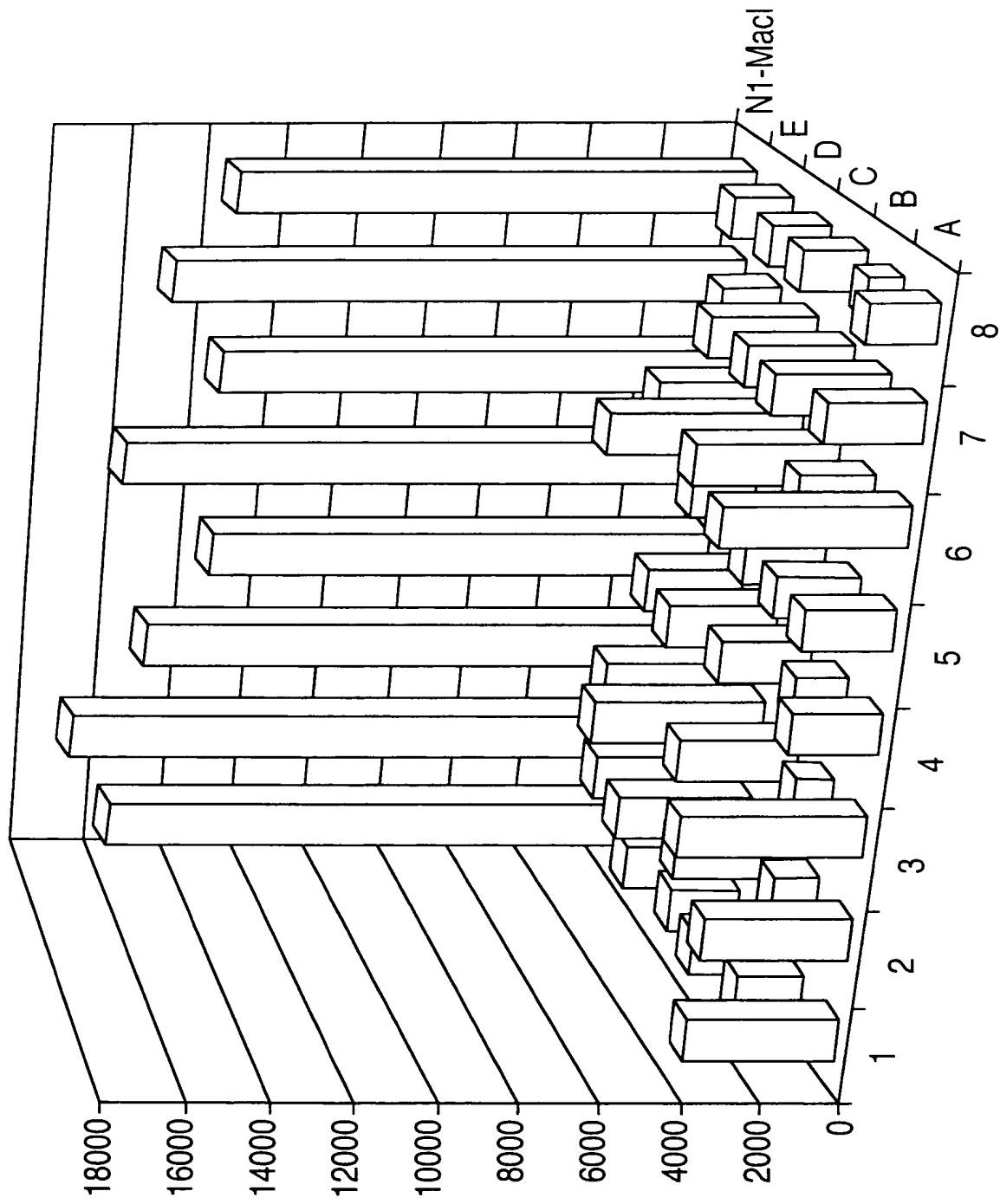
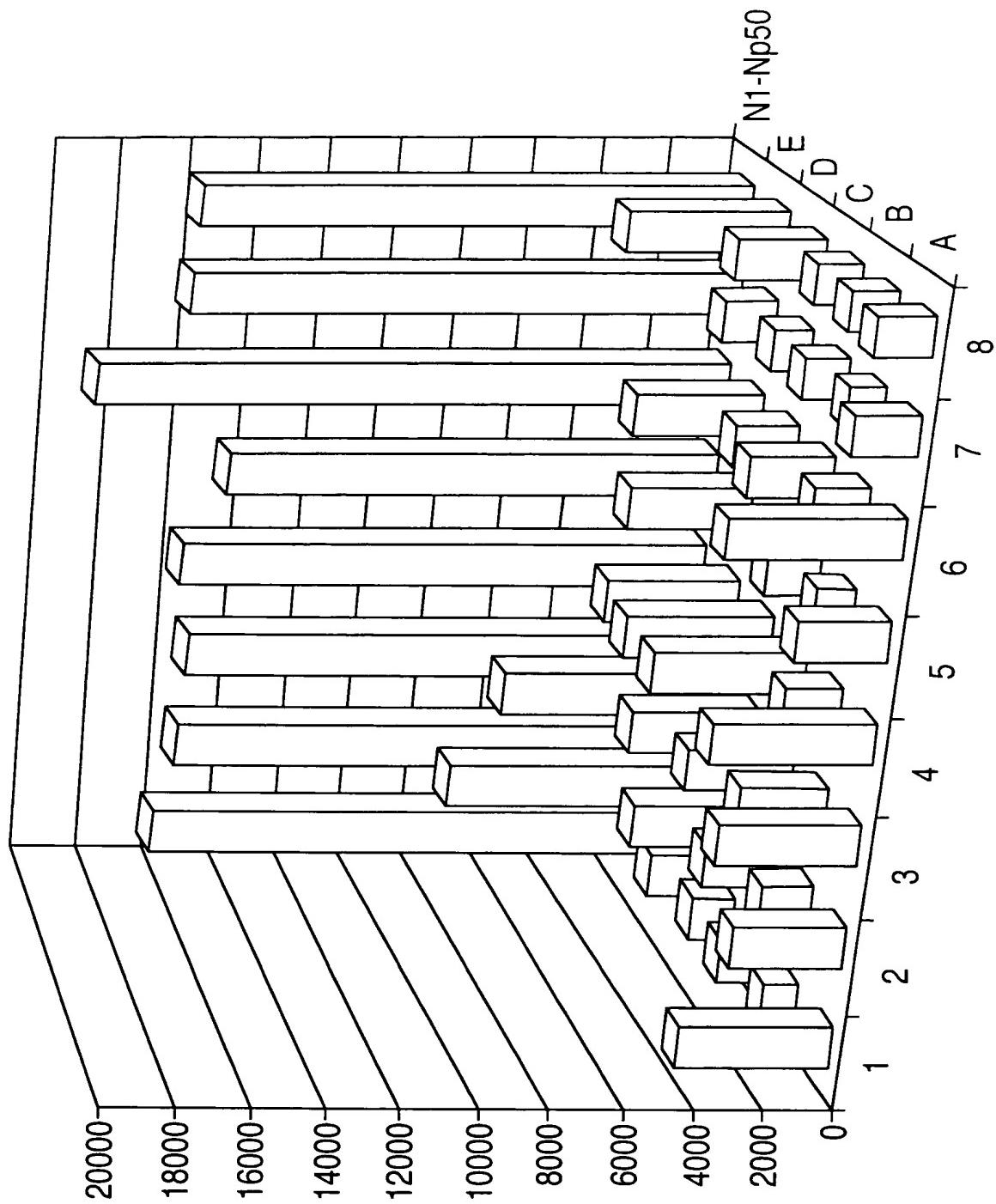
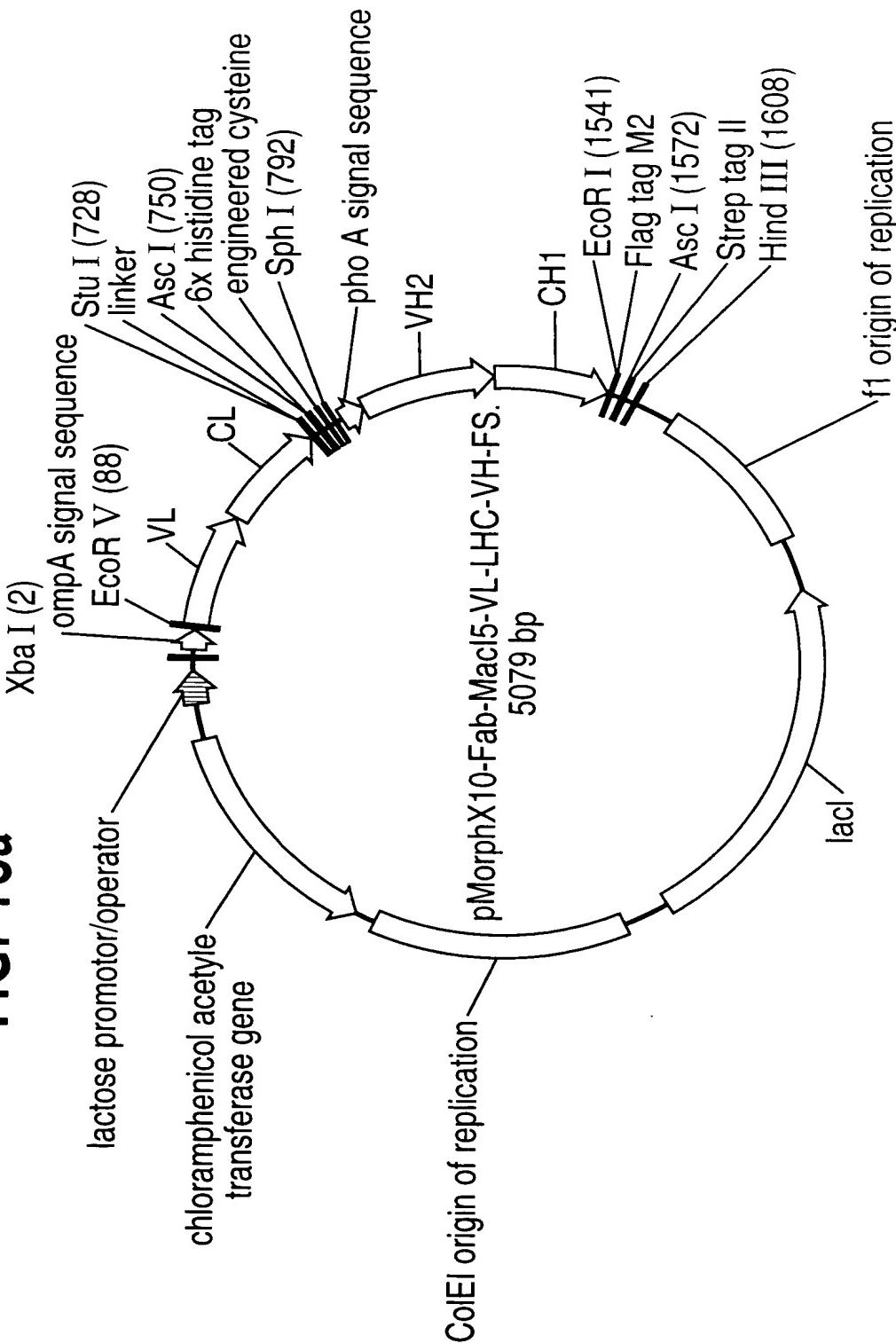


FIG. 15



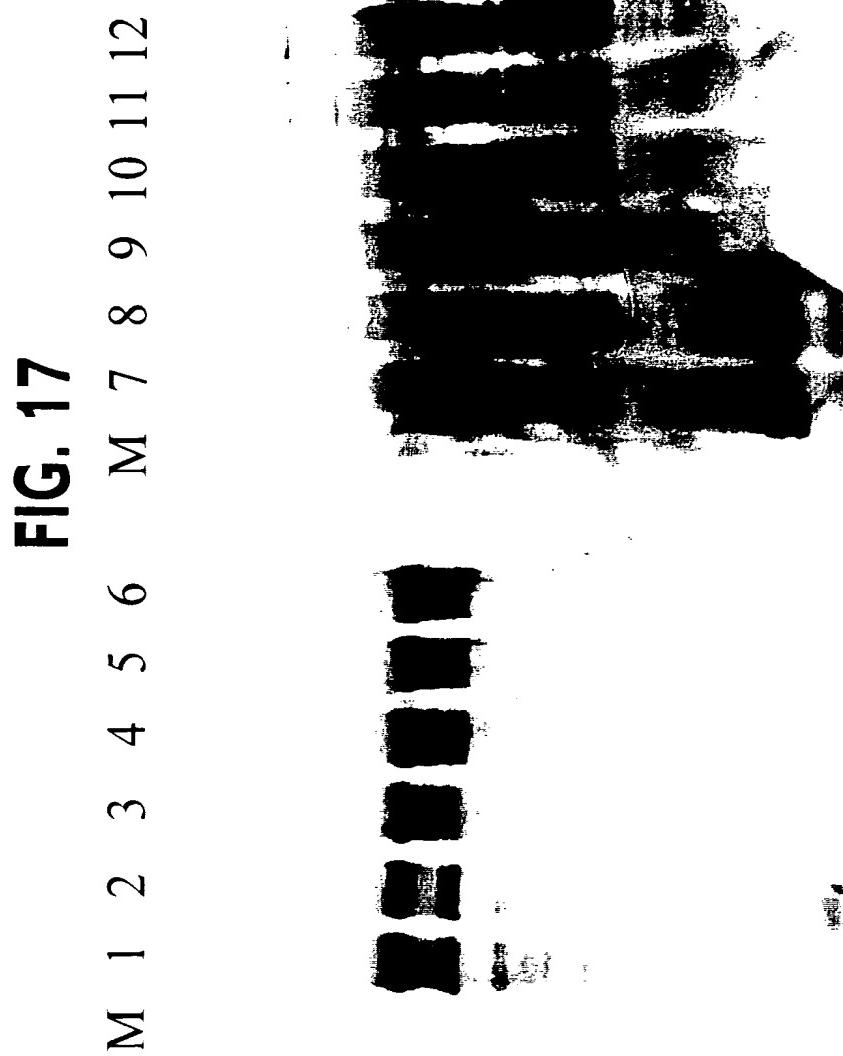
**FIG. 16a**



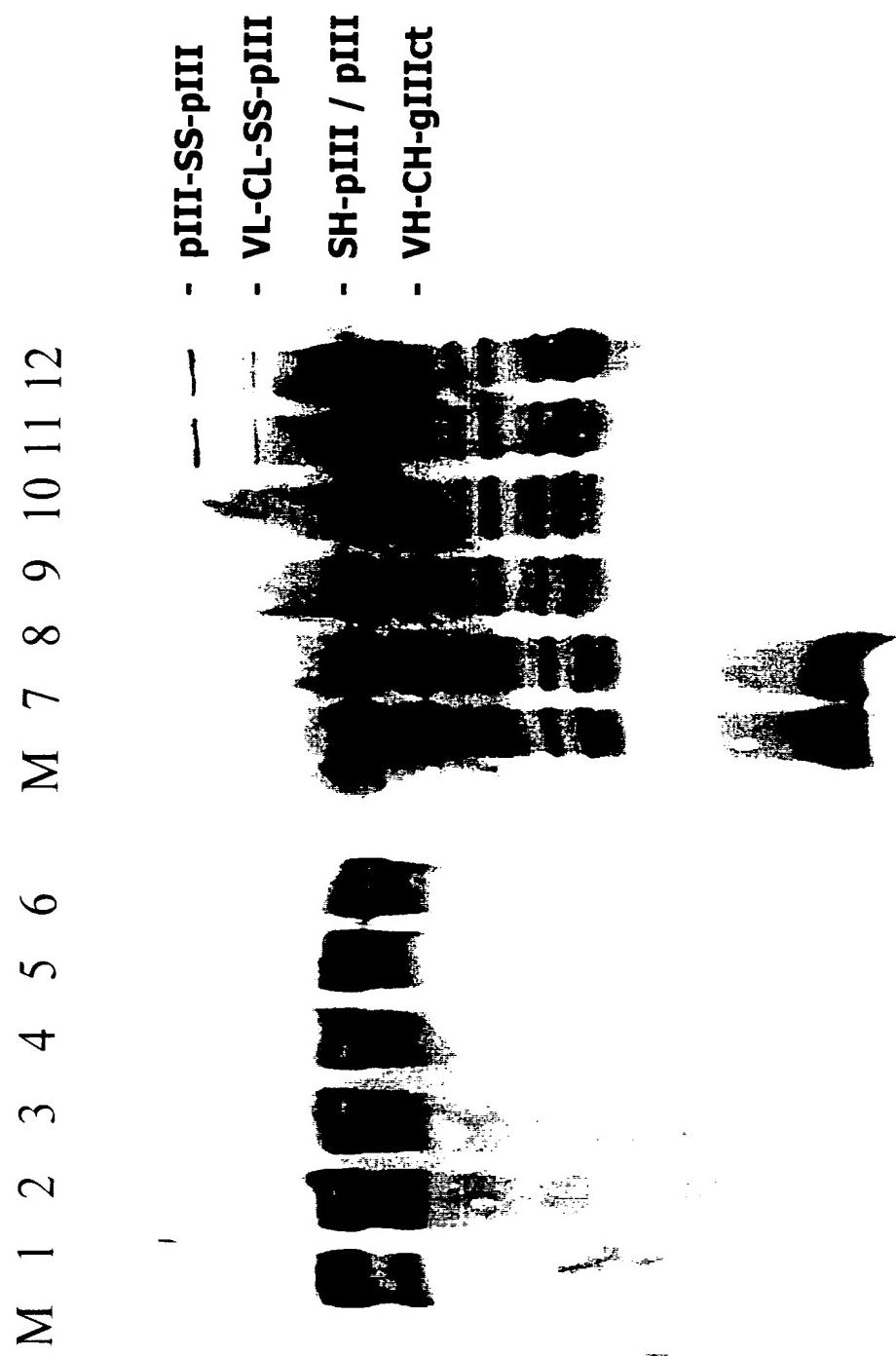
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## Complete vector sequence of pMorphX10-Fab-Mac15-VL-LHC-VH-FS

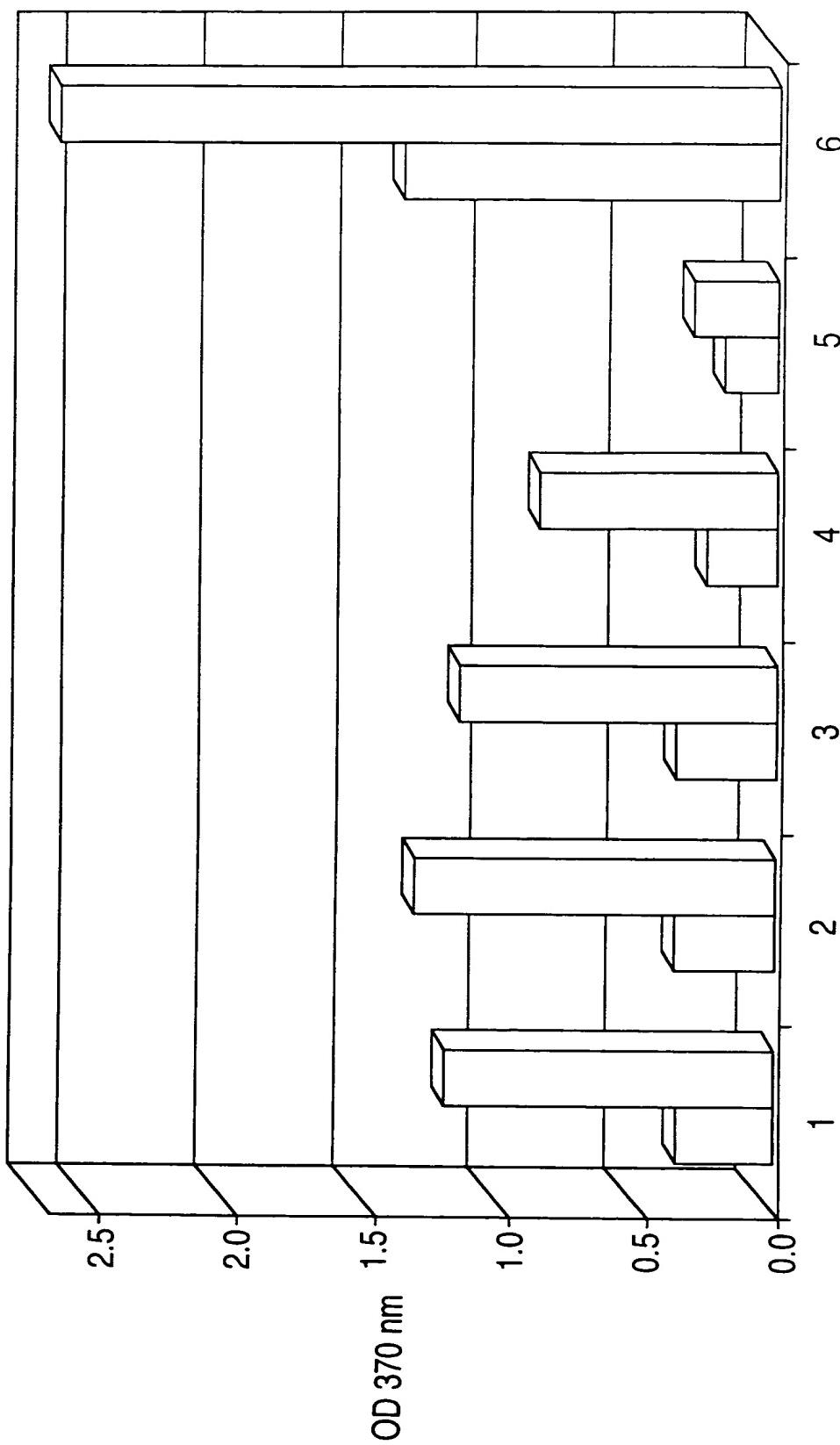
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**FIG. 18**



**FIG. 19**



**FIG. 20**

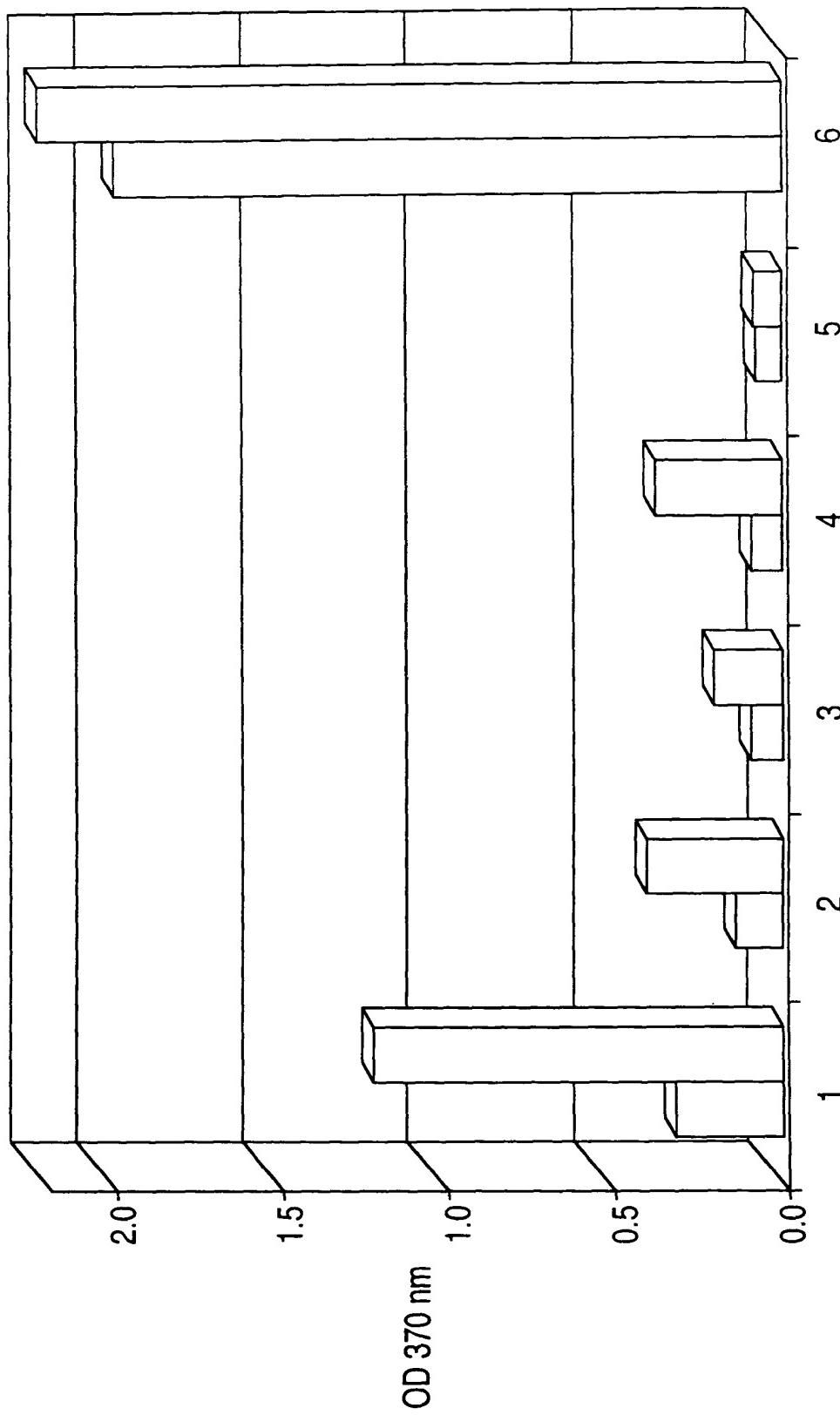


FIG. 21

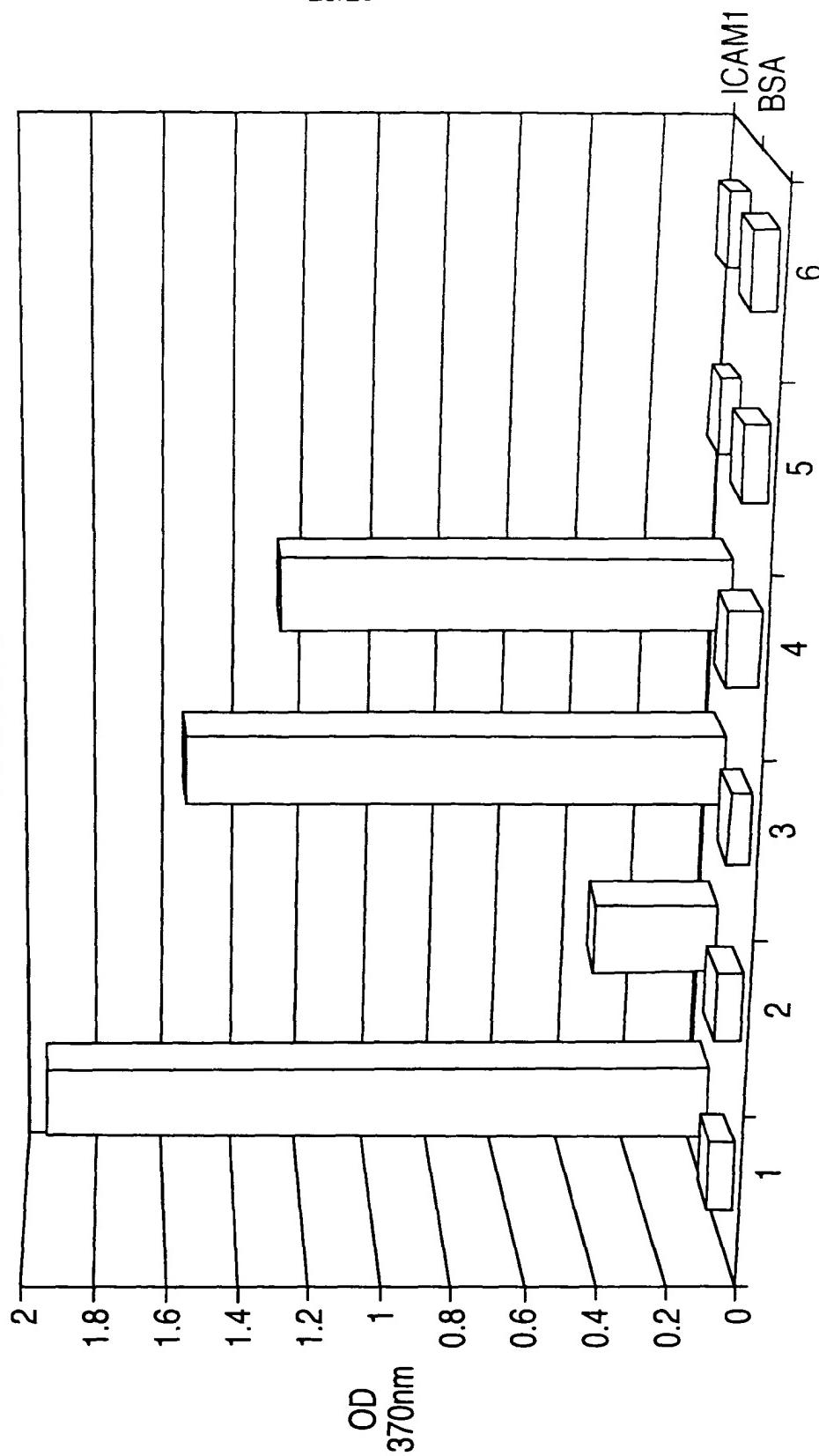


FIG. 22

